

Attorney Docket No: 23546-07666US

Client Ref: RTS-0297

USSN: 09/920,671

AMENDMENTS TO THE CLAIMS

1. (Previously amended): A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding CoREST (SEQ ID NO:11), wherein said compound specifically hybridizes with said nucleic acid molecule encoding CoREST (SEQ ID NO:11) and inhibits the expression of CoREST.

2. (Original): The compound of claim 1 which is an antisense oligonucleotide.

3. (Reinstated herein, previously cancelled): The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 14, 15, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 82, 84, 86, 87, 88, 89, 90 or 91.

4. (Original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.

5. (Original): The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothioate linkage.

6. (Original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.

7. (Original): The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.

8. (Original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

9. (Original): The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.

10. (Original): The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.

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11. (Previously amended): A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding CoREST (SEQ ID NO:11).

12. (Original): A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

13.(Original): The composition of claim 12 further comprising a colloidal dispersion system.

14. (Original): The composition of claim 12 wherein the compound is an antisense oligonucleotide.

15. (Cancel herein): A method of inhibiting the expression of CoREST in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of CoREST is inhibited.

16. (Cancel herein): A method of treating an animal having a disease or condition associated with CoREST comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of CoREST is inhibited.

17. (Cancel herein): The method of claim 16 wherein the disease or condition is a hyperproliferative disorder.

18. (Cancel herein): The method of claim 17 wherein the hyperproliferative disorder is cancer.

19. (Cancel herein): The method of claim 18 wherein the cancer is neuronal.

20. (Cancel herein): The method of claim 16 wherein the disease or condition is a developmental disorder.

21. (New): The compound of claim 1, wherein said compound comprises an antisense nucleic acid molecule that is specifically hybridizable with a 5'-untranslated region (5'UTR) of the CoREST (SEQ ID NO:11).

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22. (New): The compound of claim 1, wherein said compound comprises an antisense nucleic acid molecule that is specifically hybridizable with a start region of the CoREST (SEQ ID NO:11).

23. (New): The compound of claim 1, wherein said compound comprises an antisense nucleic acid molecule that is specifically hybridizable with a coding region of the CoREST (SEQ ID NO:11).

24. (New): The compound of claim 1, wherein said compound comprises an antisense nucleic acid molecule that is specifically hybridizable with a stop region of the CoREST (SEQ ID NO:11).

25. (New): The compound of claim 1, wherein said compound comprises an antisense nucleic acid molecule that is specifically hybridizable with a 3'-untranslated region (3'UTR) of the CoREST (SEQ ID NO:11).